Edition 2.1

cab product marking

Label printer *eOS* series

Made in Germany

Product type overview

One concept – two sizes

EOS1 for label rolls up to 155 mm Ø.

EOS4 for label rolls up to 210 mm Ø.

Type B with tear-off plate

30 mm of material is needed for tear-off.

Printing method	Thermal transfer Thermal direct	
Print resolution dpi	203	300
Print width up to mm	108	105,7
Print speed up to mm/s	125	

Type C with cutter

Labels or continuous material can be cut at a height of 10 mm.

Printing method	Thermal transfer Thermal direct	
Print resolution dpi	203	300
Print width up to mm	108	105,7
Print speed up to mm/s	125	

Type P with dispensing function (in preparation)

(only EOS4). The label height at dispensing is 20 - 200 mm.

Printing method	Thermal transfer Thermal direct	
Print resolution dpi	203	300
Print width up to mm	108	105,7
Print speed up to mm/s	125	

Key features

- The new EOS series combines all functions of a solid industrial printer with highest ease of operation.

  eos1 the compact for small work space.
  For label rolls up to 155 mm diameter.

  eos4 for label rolls up to 210 mm diameter.
  All technical data identical with EOS1.

- Two additional USB interfaces are located below the LCD display to connect a standard PC keyboard, a scanner or an USB memory stick.
- The big, clearly laid out touchscreen LCD display is easy to operate.
- In stand-alone mode the label data is entered via keyboard directly into the printer. A PC is not necessary any more.
- With the high-tech electronics, the intelligent printhead and efficient power supply the EOS is particularly energy efficient and environmentally friendly.
- The housing of the EOS devices are made of high-class ABS synthetic with translucent cover and are perfectly harmonized in their form and function.
- The cab label software cablabel R2+ supports all printer functions optimally.

EOS1 with cutter and external roll retainer for roll diameters up to 400 mm.

Details

1 Touchscreen – LCD display
Clearly designed for highest ease of use.

2 Two additional USB interfaces
For the connection of a keyboard or a memory stick, in stand-alone mode or to test the service key.

3 Roll holder
The label roll is inserted and centered automatically when closing the cover.

4 Ribbon retainer
The stop is adjustable to the foil width.

5 Gap or reflective sensor
The sensor position is adjustable by the red knob via a spindle. The set position is displayed with a LED. Color and luminance sensor on request.

6 Label guide
The guides are adjusted to the material width with the green knob.

7 Printhead 203 or 300 dpi
The printhead can be easily removed manually for cleaning or replacement.

8 Drive roller
It can be removed for cleaning or replacement with a click without a tool. When printing very narrow labels, we recommend using narrow drive rollers with a width of 25 or 50 mm to avoid the possibility of the printhead rubbing on the drive roller. This ensures a better print image and lengthens the life of the printhead.

Technical data

Printhead				
Printing method			Thermal transfer/Thermal direct	
Print resolution dpi			203 / 300	
Print width up to mm			108 / 105,7	
Print speed mm/s			30, 40, 50, 75, 100, 125	
Material[1] on rolls and fanfolded				
Labels	Paper, cardboard, textiles, plastics such as PET, PE, PP, PVC, PU, acrylate, PI	Thickness mm	Width mm	Height mm
		0,055 - 0,7	single lan 10 - 116 multi lan 5 - 116	6 - 1000
	carrierpaper 60 - 110 g/m²	0,055 - 0,10	25 - 120	continuous
Conti-nuous material	cardboard 80 - 240 g/m²	0,060 - 0,30	6 - 120	10 - 1000
	plastic film PVC	0,30	6 - 60	
		0,50	6 - 30	
	flat pressed tubes	0,40 - 0,70	5 - 85	

Media roll	core Ø mm	EOS1	EOS4
Total Ø mm	38 /40	155	210
	76	152,4	203,2
Winding direction		outside or inside	
Ribbon			
Ink		outside or inside	
Roll diameter up to mm		72	
Core diameter mm		25,4	
Ribbon length variable up to mm		360	
Width mm		50 - 114	
Printer dimensions		**EOS1**	**EOS4**
Height x Depth x Width mm		189 x 322 x 253	245 x 412 x 264
Weight kg		4	5
Label sensor			
Gap sensor		for leading edge of the label or punching marks and end of material	
Reflective sensor from the bottom		for printing marks	
Distance from the center to the left mm		0 - 58	

Electronics	
Processor high speed 32 Bit clock rate MHz	400
RAM MB	64
Memory IFFS MB Flash	16
Real-time clock, printout of time and date, data storage on shut-down	
Acoustic signal in case of error	

Interfaces		
RS232C 1.200 up to 230.400 Baud/8Bit	Option	
USB 2.0 full speed slave for PC connection	Standard	
Ethernet 10 / 100 Base T, LPD, RawIP-Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP	Standard	
WLAN USB Stick 54 Mbps	Option	
Nano Bluetooth USB Adapter V2.1	Option	
USB Master for keyboard, scanner, memory stick other service key 1 x on the back connection up to 500 mA 2 x operation panel connection up to 500 mA	Standard	

Operation panel	
Touchscreen display 160 x 255 pixels with backlight	
Diagonal measurement mm	96
Operating functions: Pause, Feed, Cancel, Menu, Enter, numeric pad	

Cutter	
Cutting length up to mm	10
Cuts/min. up to	200
Monitoring	cutter pivoted, finalposition not reached

Label dispensing function only EOS4	
Printing and dispensing	with push button on request automatically after removal of the label
Monitoring	Gap sensor, label in dispensing position

Operating data	
Power supply	100 – 240 V ~ 50 / 60 Hz, PFC
Energy consumption	Power saving mode 1,8 W / typic 45 W / max. 100 W
Temperature/ Humidity	Operation: + 5 – 40°C / 10 – 85% not condensing Storage: + 0 – 60°C / 20 – 80% not condensing Transport: – 25 – 60°C / 20 – 80% not condensing
Approvals	CE, FCC class A, CB, CCC, UL

Settings		
	Digital or analog clock System settings Print parameters 25 language settings	Time Date Interfaces Security
Stop printing if:	End of ribbon End of labels / continuous material	Printhead open cutter pivoted

On the Display			
	Data reception Input buffer Used memory Access memory stick	Temperature printhead Clean printhead Clock Date sheet	Ethernet state Ribbon reserve Final position not reached

Test routines	
System diagnosis	when switched on incl. printhead testing
Short status, status print	Font list, device list, WLAN status, profile of label, test grid, monitor mode, PPP status
Status reports	Extensive status printout with information about settings, e.g. print length counter, runtime counter, etc. Request of machine status via software commands. Detailed status messages on the display, e.g. network error – no link, barcode error, etc.

Fonts	
Font types	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Thai and Chinese (simplified Chinese)
Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R. All West and East European Latin, Cyrillic, Greek, Hebrew and Arabic, Thai and Chinese characters are supported
Bitmap fonts	Size of width and height 1 – 3 mm, Zoom 2 – 10 Orientation 0°, 90°, 180°, 270°
Vector-/ TrueType fonts	Size of width and height 0.9 – 128 mm, variable zoom, orientation 360° in steps of 1°
Font formats	Bold, italic, underlined, outline, negative, gray, vertical, depending on character fonts
Font width	Variable

Graphics	
Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG

Barcodes			
Linear barcodes	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C Codabar EAN 8, 13 EAN/UCC 128 EAN/UPC Appendix 2	EAN/UPC Appendix 5 FIM HIBC Interleaved 2/5 Ident- and lead code of Deutsche Post AG	JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0
2D codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar		
	All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and start/stop code, depending on code type.		

Software			
Programming	J-Script direct programming abc-Basic Compiler Database Connector		Standard Standard Option
System diagnosis/ administration	Printer monitoring with Intra- and Internet Network Manager		Standard Option
Label software	cablabel R2+ Direct programming with ZPL Codesoft, Nicelabel, Easylabel Bartender, Label Matrix, Labelview		Standard in preparation Option Authorized distri-bution by resellers
Windows driver 32/64 bit certified for	Windows XP Windows Vista Windows 7	Server 2003 Server 2008 Server 2008 R2	Standard
Mac driver	OS X printer driver from version 10.4		Standard
Linux driver	Tested with Suse 9.0, CUPS-based		Standard
Stand-alone operation			Standard

[1] All material details are approximate values. Small labels, very thin, narrow, thick or stiff materials as well as labels with strong adhesives must be tested.

Software tools

Direct programming with J-Script
The printer language is easy to understand and simple to integrate into your host system.

Integration into SAP R/3*
In cooperation with SAP, cab developed the “replace method” for controlling cab printers quickly and easily from SAP R/3 using SAPScript.
** SAP and R/3 are registered trademarks of SAP AG.*

abc – Basic Compiler
As an integrated element of the firmware, the Basic Compiler enables the printer to process data via BASIC programming before it is sent for print editing. This makes it possible for external printer languages to be replaced or data from other systems, e.g. a PLC or balance, to be transferred so information can be printed in different label formats.

Database Connector
In stand-alone mode with additional network connection, the Database Connector enables stand-alone printers to access data directly from a central SQL-compatible database and to print it as a label.

Printer monitoring with Intranet and Internet
Using standard programs such as the web browser or FTP clients, the integrated HTTP and FTP server enables print monitoring, configuration, firmware updates and memory card administration.

Administration Network Manager
The cab Network Manager enables the user to control multiple printers across a network simultaneously (en preparation).

Direct programming with ZPL
(in preparation).

Printer driver

WHQL-certified
Windows printer driver for

Windows XP	Windows Server 2003
Windows Vista	Windows Server 2008
Windows 7	Windows Server 2008 R2

Our printer drivers are officially certified and signed by Microsoft. They ensure optimum stability on your Windows operating system. The programs Word, Excel, Access, Corel Draw, etc. can be used to design and print labels.

Apple-Mac OS X® driver
Alternatively, cab offers a CUPS-based printer driver for Mac OS X.

Linux driver
Alternatively, cab offers a CUPS-based printer driver for Linux.

Microsoft® is a registered trademark of Microsoft Corporation.
Mac OS® is a registered trademark of Apple Computer, Inc

Label software

cablabel R2+.
A powerful label software that is available free of charge and specially designed for cab printers and print & apply systems.

Different fonts, barcodes and graphics in variable heights, widths and printing directions can be used to produce the best possible label design.
In addition to the loadable TrueType fonts available with MS Windows, cab printers also offer a large number of internal bitmap and vector fonts. Thanks to the support of the most commonly used codepages, country-specific special characters can also be printed.
High-performance functions make it possible to design and print even complex labels in just a few minutes. cablabel R2+ supports special functions of the cab printers, such as real-time clock, printer counter, stand-alone operation without PC, circular fonts or the printout of the printer data stream in a file.
The MDI technology makes it possible to open several labels at the same time and to move objects from one label to another.

cablabel R2+ is available in 24 different languages for the following operating systems:

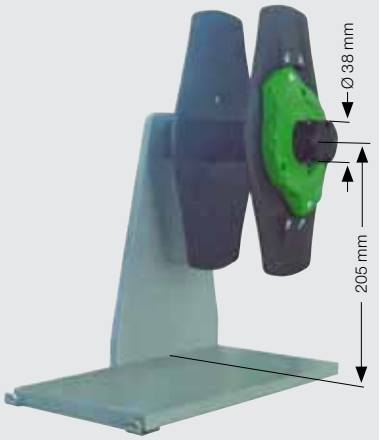
Windows XP	Windows Server 2003*
Windows Vista	Windows Server 2008*
Windows 7	

** Terminalserver / Citrix are not supported.*

Additional label software
Highest possible variability – other commercially available label software solutions, such as Codesoft, Nicelabel, Easylabel, Bartender, Label Matrix or Labelview, support the cab label printers and labeling systems. More information is available on our website.

Accessories

External roll retainer EOS



Roll diameter up to 400 mm,
Core diameter up to 38 mm,
Winding direction outside or inside
Roll weight max. 4 kg

USB memory stick

Compact keyboard USB

Number of keys 86, L x W mm 286 x 132, Cherry G84-4100 LCM

RS232C Interface

Length 1,5 m

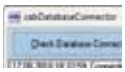
WLAN USB stick 54 Mbps

Nano Bluetooth USB Adapter V2.1

Device functionality and compliance with CE standards are only warranted by using the accessories provided or recommended by cab.

Delivery program

	Part no.	Hardware dpi
		EOS1 with tear-off plate
	5965101	Label printer EOS1 / 200 B
	5965102	Label printer EOS1 / 300 B
		EOS1 with cutter
	5965110	Label printer EOS1 / 200 C
	5965112	Label printer EOS1 / 300 C
		EOS4 with tear-off plate
	5965103	Label printer EOS4 / 200 B
	5965104	Label printer EOS4 / 300 B
		EOS4 with cutter
	5965106	Label printer EOS4 / 200 C
	5965107	Label printer EOS4 / 300 C
		EOS4 with dispensing function
	5965108	Label printer EOS4 / 200 P
	5965109 (in preparation)	Label printer EOS4 / 300 P
	Scope of delivery	
DVD:	Label printer, Power cable type E+F, length 1.8 m, Connecting cable USB, length 1.8 m, Operating manual de/en Operating manual 22 languages, Configuration manual de/en/fr, Service manual / Spare parts de/en, Programming manual en, Windows printer driver 32/64 bit in 19 languages for Windows XP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2 Label software cablabel R2+ in 24 languages, Database Connector en, Mac OS X driver de/en/fr, Linux driver de/en/fr	

	Part no.	Spare parts
	5966096.001 **5965580.001**	Printhead 200 Printhead 300
	5965488.001	Print roller DR4
	5966218.001	Print roller DR4-25
	5966219.001	Print roller DR4-50
	Part no.	**Accessories**
	5965586	External roll retainer EOS
	5906179	USB memory stick
	5901630	Compact keyboard USB
	Part no.	**Interfaces**
	5965514	RS232C Interface
	5906225	WLAN USB stick 54 Mbps
	5906226	Nano Bluetooth USB Adapter V2.1
	Part no.	**Software**
	**DL 40100**	Database Connector license
	5580215	Administration Network Manager
	included	Label software cablabel R2+
	on request	Codesoft, Nice Label, Easylabel
	9008486	Programming manual English, printed copy

The cab delivery program

Label printer EOS1
The compact for
label rolls up to155 mm Ø

Label printer EOS4
The inexpensive for
label rolls up to 210 mm Ø

A+ series Label printer
The universal

XD4 Label printer
for double sided printing

XC series Label printer
for 2-tone printing

Hermes+ Print and Apply
for the automation

PX series print module
to integrate into labelling
systems

Label dispenser HS/VS
Precise and simple label
dispensing up to 180 mm

Labels / ribbons
Precise printing with
cab labels and ribbons

Label software
Standard and
optional software

FL series laser marking system
Precise and fast

Laser safety housing
The industrial solution

For current data, please go to www.cab.de

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